No.



8200044

TO ALL TO WHOM THESE PRESENTS SHALL COME;

Northrup King Co.

Withereas. There has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLI-CANT(S) FOR THE TERM OF eighteen Years from the date of this grant, subject TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC red of the variety in a public repository as provided by ${
m LAW}$, the right to ex-DE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, PORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

> Perennial Ryegrass 'Goalie' In Lestimony Wathereot, I have hereunto set my hand and caused the seal of the **E**laut Tariety Protection Office to be affixed at the City of Washington

this 31st day of January in the year of our Lord one thousand nine hundred and eighty-six

Connell Fo. Ev ars Commissioner Plant Variety Grotection Office

| | UNITED STATES DEPARTMEI AGRICULTURAL MARK LIVESTOCK, POULTRY, GRA | ETING SERVICE | | | FORM APPROVED OMB NO. 40-R3822 |
|------|--|---|---|---|---|
| | PLICATION FOR PLANT VARIE TRUCTIONS: See Reverse. | | | No certificate for pla be issued unless a co has been received (5 L | nt variety protection may mpleted application form J.S.C. 553). |
| 1a, | TEMPORARY DESIGNATION OF VARIETY | 16, VARIETY NAM | E | FOR OFFICE | AL USE ONLY |
| | K5-92 | Goalie | | PV NUMBER 82 | 00044 |
| 2. | KIND NAME | 3. GENUS AND SPE | CIES NAME | FILING DATE | TIME A.M. |
| | Perennial Ryegrass | Lolium p | erenne L. | 12/18/81 FEE RECEIVED | 12:00 P.M. DATE |
| 4. | FAMILY NAME (BOTANICAL) | 5. DATE OF DETEI | NOITANIME | s 500.00 | 12/18/81 |
| | Gramineae | 1978 | | \$ | |
| 6. | NAME OF APPLICANT(S) | | t and No. or R.F.D. No., | City, State, and ZIP | 8. TELEPHONE AREA |
| | Northrup King Co. | Code) P. | O. Box 959 | | CODE AND NUMBER |
| | | | nneapolis, MN | 55440 | (612)781-5305 |
| 9, | IF THE NAMED APPLICANT IS NOT A PEORGANIZATION: (Corporation, partnersh: Corporation | RSON, FORM OF ip, association, etc.) | 10. IF INCORPORAT DATE OF INCORE Delaware | | 11. DATE OF INCOR- PORATION 1896 |
| 12. | NAME AND MAILING ADDRESS OF APPI ALL PAPERS: | | ATIVE(S), IF ANY, TO S Robert W. Ro | | ATION AND RECEIVE |
| | the second | | rthrup King Co. | _ | |
| | | | O. Box 959/Min | | 55440 |
| 13, | CHECK BOX BELOW FOR EACH ATTACH | MENT SUBMITTED: | | | |
| | 🔼 13A. Exhibit A, Origin and Bree | ding History of the | Variety (See Section 5 | 2 of the Plant Variety | Protection Act.) |
| | X 13B. Exhibit B, Novelty Statem | | | | |
| | X 13C. Exhibit C, Objective Descri | iption of the Variety | (Request form from | Plant Variety Protecti | ion Office.) |
| | 13D. Exhibit D, Additional Desc | | | ÷ . | · |
| 14a, | DOES THE APPLICANT(S) SPECIFY THAT SEED? (See Section 83(a). (If "Yes," answer | | | RIETY NAME ONLY AS | A CLASS OF CERTIFIED |
| 14b. | DOES THE APPLICANT(S) SPECIFY THAT LIMITED AS TO NUMBER OF GENERATI | T THIS VARIETY BE ONS? | 14c. IF "YES," TO 14 | B, HOW MANY GENERA | ATIONS OF PRODUC- |
| | YES X NO | | FOUNDATION | REGISTERED | CERTIFIED |
| 15a. | DID THE APPLICANT(S) FILE FOR PROTI | ECTION OF THIS VAI | RIETY IN OTHER COU | YES YES | NO (If "Yes," give |
| | -ENGL | HND 11/2 | 9/80 - FAX "/19/82 | EST 11/19 | 182 |
| 15b. | HAVE RIGHTS BEEN GRANTED THIS VA | RIETY IN OTHER CO | | VNO Atavas | give name of countries |
| | and dates.) | ane i i ii o i i e i | ONTRIES: TTCS | A NO (1) 123, | give name of countries |
| | | | | . 1 . 10 | |
| 16, | DOES THE APPLICANT(S) AGREE TO THE JOURNAL? | E PUBLICATION OF H | IIS/HER (THEIR) NAMI | E(S) AND ADDRESS IN | THE OFFICIAL |
| 17. | The applicant(s) declare(s) that a viable replenished upon request in accordance | sample of basic seed with such regulation | d of this variety will b ns as may be applicab | e furnished with the a le. | pplication and will be |
| | The undersigned applicant(s) is (are) the variety is distinct, uniform, and stable at 42 of the Plant Variety Act. | e owner(s) of this se as required in Section | xually reproduced non 41, and is entitled to | vel plant variety, and be protection under the | believe(s) that the e provisions of Section |
| • | Applicant(s) is (are) informed that false | e representation here | in can jeopardize prot | ection and result in p | enalties. |
| DE | CEMBER 15 1981 | | / Walre | V 1./ | Lome- |
| | (DATE) | | (5 | SIGNATURE OF APPLI | CANT) |
| | (DATE) | 44.344.44 | (8 | SIGNATURE OF APPLIC | CANT) |

FORM GR-470 (1-78)

INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties:

 (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

4830

AMS, LPG&S DIV.

ASSIGNMENT OF PLANT VARIETY PROTECTION CERTIFICATES AS COLLATERAL SECURITY

THIS ASSIGNMENT OF PLANT VARIETY PROT CERTIFICATES AS COLLATERAL SECURITY ("Assignment") 1995, by and between NK LAWN & GARDEN CO., a Delaware of ("BORROWER"), with its mailing address at 7500 Olson Memoria Valley, Minnesota 55427, and CONGRESS FINANCIAL CORPOR DO NOT COPY

Wisconsin corporation ("Lender"), with its mailing address at 100 South Wacker Drive, Suite 1900, Chicago, Illinois 60606.

RECITALS

The BORROWER has applied to the Lender for certain credit accommodations. The Lender has agreed to extend the credit accommodations to the Borrower, under the terms and conditions set forth in a Loan and Security Agreement of even date herewith, ("Agreement") by and between the Borrower and the Lender, and various other documents, instruments and agreements executed by or on behalf of the Borrower in connection with the above-described credit accommodations (together with the Agreement, collectively, "Loan Documents"). Capitalized terms used herein without definition shall have the meanings ascribed to such terms in the Agreement.

In order to induce the Lender to enter into the above-described credit accommodations, the Borrower, pursuant to the terms and conditions of the Agreement, has agreed to assign to the Lender certain Plant Variety Protection Certificates, and has granted to the Lender a lien on and security interest in all of the Borrower's assets, including but not limited to, those assets relating to products manufactured pursuant to the Plant Variety Protection Certificates, whereby the Lender, upon the occurrence of an Event Of Default (as such term is defined in the Agreement), shall have the right to foreclose on the Plant Variety Protection Certificates and other assets of the Borrower, in order that the owner of the Plant Variety Protection Certificates may continue the manufacturing of products manufactured under the Plant Variety Protection Certificates.

NOW, THEREFORE, FOR GOOD AND VALUABLE CONSIDERATION, the receipt and adequacy of which are hereby acknowledged, the Borrower agrees with the Lender as follows:

Assignment. The Borrower, as additional security for the Section 1. complete and timely payment, performance and satisfaction of all of the Obligations (as defined in the Agreement), hereby assigns, transfers, sets over and conveys unto the Lender, its successors and assigns, upon the following terms and conditions, all of its right, title and interest existing in, under or by virtue of those certain Plant Variety Protection Certificates registered with the Department of Agriculture, Plant Variety Protection Office and described on Exhibit A attached hereto and made a part hereof and all claims for damages by reason of past infringement of the assigned Plant Variety Protection Certificates with the right to sue for and collect the same (collectively, "Certificates") and all license rights in the Certificates.

FULL DOCUMENTATION IN ASSIGNMENTS DRAWER

RELEASE OF ASSIGNMENT OF PLANT VARIETY PROTECTION CERTIFICATES AS COLLATERAL SECURITY

WHEREAS, pursuant to that certain Assignment of Plant Variety Protection Certificates as Collateral Security dated as of March 1, 1993 and filed with the United States Department of Agriculture Plant Variety Protection office in the records listed on Schedule A attached hereto (the "Security Document"), NK Lawn & Garden Co., a Delaware corporation ("Debtor"), granted to StanChart Business Credit, Inc. (now known as Lasalle Business Credit, Inc.), a Delaware corporation (the "Secured Party"), a security interest in and to all of the right, title and interest in, under and by virtue of certain plant variety protection certificates owned by the Debtor, as set forth in Schedule B hereto (the "Collateral").

WHEREAS, the Secured Party no longer claims a security or any other interest under the Security Document.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the Secured Party hereby terminates the Security Document and reassigns, releases and discharges to Debtor, without representation, warranty or recourse (express or implied), all of Secured Party's right, title and interest (including, without limitation, its security interest) in and to the Collateral.

ASSIGNMENT OF PLANT VARIETY PROTECTION CERTIFICATES AS COLLATERAL SECURITY

THIS ASSIGNMENT OF PLANT VARIETY PROTECTION CERTIFICATES AS COLLATERAL SECURITY ("ASSIGNMENT") is dated as of March 1, 1993, by and between NK LAWN & GARDEN CO., a Delaware corporation ("BORROWER"), with its mailing address at 7500 Olson Memorial Highway, Golden Valley, Minnesota 55427, and STANCHART BUSINESS CREDIT, INC., a Delaware corporation ("LENDER"), with its mailing address at 120 East Baltimore Street, Suite 1802, Baltimore, Maryland 21202.

RECITALS

The BORROWER has applied to the LENDER for certain credit accommodations. The LENDER has agreed to extend the credit accommodations to the BORROWER, under the terms and conditions set forth in a Loan And Security Agreement executed on March 1, 1993, ("AGREEMENT") by and between the BORROWER and the LENDER, and various other documents, instruments and agreements executed by or on behalf of the BORROWER in connection with the above-described credit accommodations (together with the AGREEMENT, collectively, "LOAN DOCUMENTS").

In order to induce the LENDER to enter into the above-described credit accommodations, the BORROWER, pursuant to the terms and conditions of the AGREEMENT, has agreed to assign to the LENDER certain Plant Variety Protection Certificates, and has granted to the LENDER a lien on and security interest in all of the BORROWER'S assets, including but not limited to those assets

EXHIBIT A

| NAME OF VARIETY | PLANT VARIETY PROTECTION CERTIFICATE/ APPLICATION NUMBER | APPLICATION/ ISSUE DATE | NAME OF OWNER |
|--|--|----------------------------|------------------|
| Kentucky Bluegrass Aspen | 8600151 | 04-30-87 | * |
| Kentucky Bluegrass Trenton | 8600156 | 04-30-87 | * |
| Puccinellia Distans Weeping Alkaligrass Fults | 8300071 5 | 12-30-83 | * |
| Perennial Ryegrass Delray | 8200043 | 04-26-85 | * |
| Perennial Ryegrass Goalie | 8200044 | 01-31-86 | * |
| Chewings Fescue Dover | 9100133 | 03-11-91 | * |
| Fine Fescue Dover | 9100133 | 03-11-91 | * |

C:\jsb\12466\exhibit.a

^{*} NK Lawn & Garden Co.

GOALIE PERENNIAL RYEGRASS

EXHIBIT A

ORIGIN AND BREEDING OF GOALIE PERENNIAL RYEGRASS

- 1. The development of Goalie perennial ryegrass began in 1965 using mass selection procedures. Plants were selected out of three populations identified as Syn O, RG103, and RG104. The former was obtained from Rutgers University, and the latter two populations from Pennsylvania State University. Selected plants were crossed to pollen source plants originating from Syn 01-56, a population from the Plant Breeding Station at Ottawa, Ontario, Canada; various European sources including the varieties Pelo and Herof; from U.S.D.A. Plant Introduction Station sources; and other germ plasm.
- 2. Between 1965 and 1968, the progeny were screened using several test procedures, after which the germ plasm was again consolidated as Project PR 6801. Following field selection at Northrup King's Research Station, Eden Prairie, Minnesota, polycross seed was produced.
- 3. The next generation was field screened at the Northrup King research Station, Atmore, Alabama, in Project PR 7154. Seed was harvested from selected plants the following season.
- 4. The Atmore seed was returned to the Northrup King Research Station in Eden Prairie, Minnesota, where the resultant seedlings were greenhouse screened against Helminthosporium spp., crown rust (Puccinia coronata), and for heat tolerance. Surviving plants were established under field conditions as Project PR 7302. Selection continued against Helminthosporium spp., leaf diseases, crown rust, and unidentified diseases, as well as for winter hardiness and plant type.

Three plants were selected for uniform flowering to form the base population which resulted in the development of Goalie.

5. The three parent plants were crossed in Project PR 7465 and were identified as:

| X 7465 | 8-35 |
|--------|-------|
| X 7465 | 41-6 |
| X 7465 | 60-12 |

- 6. The Syn 2 and advanced generations were tested as experimental variety K5-92.
- 7. By 1978, it had been ascertained that K5-92 was a distinct and reproducible variety. The name Goalie was assigned.





Ryegrass Application No. 8200044. Goalie

Addendum To Exhibit A. Uniform and Stable Statement.

Goalie perennial ryegrass meets certification standards for uniformity and stability. One percent to three percent of the plants can be expected to produce branched type heads, with the remaining plants producing normal spike-type heads.

EXHIBIT B

The following were licensed to Jacklin Seed Company by agreement of March 9, 1992:

PLANT VARIETY
PROTECTION
CERTIFICATE/
APPLICATION NUMBER

9100133

| NAME OF VARIETY | APPLICATION NUMBE | F |
|--------------------------|-------------------|---|
| Kentucky Bluegrass Aspen | 8600151 | |

| Kentucky Bluegrass Trenton | 8600156 |
|--|---------|
| Puccinellia Distans Weeping Alkaligrass Fults | 8300071 |
| Perennial Ryegrass Delray | 8200043 |
| Perennial Ryegrass Goalie | 8200044 |
| · | |

C:\jsb\12466\exhibit.b

Fine Fescue Dover

Ryegrass Application No. 8200044, 'Goalie' Exhibit B. Novelty Statement, Amended.

Goalie Perennial Ryegrass is most similar to Pennfine but differs from Pennfine in that it flowers from 6 to 13 days later and is from 4 to 9 cm shorter, as shown below.

Comparison of Flowering Dates $\frac{1}{2}$ of Goalie and Pennfine

| | Date for | Variety - | Difference in |
|-------------------------------------|----------|-----------|------------------|
| Location and Year | Goalie | Pennfine | Days |
| Eden Prairie, MN - 1979 | June 14 | June 8 | 6 |
| North Williamette Valley, OR - 1977 | June 19 | June 11 | 8 |
| South Williamette Valley, OR - 1977 | June 19 | June 10 | 9 |
| South Williamette Valley, OR - 1980 | June 23 | June 10 | 13 |
| Average | June 19 | June 10 | 9 2/ |

1/ 50% pollen shed

 $\underline{2}$ / s $\frac{1}{d}$ = 2.17, \underline{t} = 4.15* for 3 d.f.

Comparison of Culm Lengths of Goalie and Pennfine

| | Var | Difference | |
|-------------------------------------|--------|------------|---------------|
| Location and Year | Goalie | Pennfine | |
| | cm | cm | cm |
| Eden Prairie, MN - 1979 | 43 | 47 | -4 |
| North Williamette Valley, OR - 1977 | 61 | 69 | 8 |
| South Williamette Valley, OR - 1977 | 61 | 68 | - 7 |
| South Williamette Valley, OR - 1980 | 59 | 68 | -9 |
| Average | 56 | 63 | -7 <u>2</u> / |

 $\underline{1}$ / s $\frac{1}{d}$ = 1.17, \underline{t} = 4.2* for 3 d.f.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782 OBJECTIVE DESCRIPTION OF CULTIVARS RYEGRASS (Lolium spp.)

| NAME OF APPLICANT(S) | RYEGRASS CUL | TIVARS | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
|--|--|--|--|
| NOrthrup V: | (Lolium spp.) | 24.0 | terminan da ili gerinde en |
| ADDRESS & | | | the state of the s |
| ADDRESS (Street and No., or R.F.D. No., City, State, and P.O. BOX 959 | | Goalie | E OR TEMPORARY DESIG |
| 11111111111111111111111111111111111111 | ZIP Code) | _ | • |
| 55440 | | PVPO NUMBER | R OFFICIAL USE ONLY |
| Place the appropriate number that describes the varietal character of number if either 99 or less or 9 or less. Descriptions of characters should be for SPACED PLANTS. Give additional description of the ethics of the comparative trial and evaluation data. 1. SPECIES: | A second of the | 1 | 20. |
| ta should be for SPACED by that describes the varietal character of | of this variety in al. | | 3200044 |
| etrinent comparative trial and evaluation additional description | hould represent those that are | . Place a zero in firs | thou ([alarm |
| Place the appropriate number that describes the varietal character of the partial character of the partial character of the partial characters of th | for all characteristics that cannot | pical for the variety | Ranges may be given |
| number if either 99 or less or 9 or less. Descriptions of character of lata should be for SPACED PLANTS. Give additional description petrinent comparative trial and evaluation data. 1. SPECIES: 1 = L. MULTIFLORUM (annual or Italian: includes week) | | | abed in the form below, Appea |
| 2 4= HYBRID (of species) | erwoldicum) 2 = 1 pg- | *** | |
| 2 4 = HYBRID (of species) 2. PLOIDY: | PERENNE | (perennial) 3 | L. RIGIDINA |
| | 5 = OTHER (Spec | ify) | L. RIGIDUM (includes Wim |
| 1 1 = DIPLOID 2 = TETRAPLOID | The second of th | | |
| | 3 = OTHER (Speci | 4 | Control of the Contro |
| DURATION: | - The state | (()) | - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 |
| 3 1 = ANNUAL OR BIENNIAL 2 = SHORT | | | entan ili selle ili selle 1900 m. e. |
| SHORT LIVED PEI | RENNIAL (3-4 var. | | |
| | | = PERENNIAL (mo | re than 4 |
| MATIPITY (CO.) | 3 = 1 INN | | |
| Use standards from the | 3 = LINN 7 = MANHATTAN | $\frac{3 + 3 + 3 + 3 + 3 + 3 + 3 + 3}{4 = p}$ | ELO 9=Yorktown |
| 1 = VERY EARLY 3 = EARLY | omparison: | 8 = P | ENNFINE 19= Gitation |
| 5 = MEDIUM 7 = LATE 0 9 E | PAYS EARLIER THAN | | DELUY |
| 10161 | | 7 | STANDARD CULTIVAR |
| MATURE PLANT USE | AYS LATER THAN | | |
| TEIGHT (Use standard cultivars from al | and the second s | | STANDARD CULTIVAR |
| 5 1 CM. HIGH | | | |
| | CM. SHORTER THAN | | |
| L] SW. ALLER THAN | · | | STANDARD CULTIVAR |
| ERCENT WINTER DAMAGE | ARD CULTIVAR | —————————————————————————————————————— | ZIIVAM |
| ERCENT WINTER DAMAGE (estimated as percent of the area as | ana a sa | | |
| 2 2 PERCENT DAMAGE OF APPLICATION CULTIVAR | | cultivars from abov | |
| 2 F | | oom abov | e for comparison: |
| 2 5 PERCENT DAMAGE OF | | n interest was | e to Mr. Mil |
| JRF DENSITY | RD CULTIVAR | | |
| Use standard cultivars from above: | | | |
| U 5 TILLERS PER 100 SQ. CM | | | |
| To a transfer of the contract | | | |
| / 0 LESS TILLERS PER 100 SO CHA | STANDARD - | ACLANDES FOR LAND | 2000 m. r. m. |
| 0 1 MORE TILLERS PER 100 00 | STANDARD CULTIVAR | * ***** | 4 N - 27 T |
| | • | | |
| G LEAF / | STANDARD CULTIVAR | | |
| Use standard cultivare from | and the second s | | |
| 4 CM. LENGTH (from ligule to tip) | and the first | The second secon | and the production of the second of the seco |
| [] | 2 9 MM. WIDTH (- | t point) | New day |
| U CM. SHORTER THAN | 9 MM. WIDTH (at widest | t point) i e e e e e e e | To the end of the first term of the end of t |
| 7 st | ANDARD CULTIVAR | | |
| / CM. LONGER THAN | L_ | BOOT STAGE | 1 = DEFLEXED 3 = RECURVED 5 = HORIZONTAL 7 = SEMI-EDFORM |
| | ANDARD CULTIVAR | 1 - 1 - 1 | 7 = SEAN SONTAL |
| MANAGWER THAN | ina ing Magazya sa Palifa Maria Barawa sa | Market and American | 9 = ERECT |
| 181STA | ANDARD CHI THE | | |
| 2 MM. WIDER THAN | COLITVAR | | |
| 11 STA | NDARD CULTIVAR | The first of the second | manage and a second of the second of |
| | | ANAA | |
| | | | AF . |

| FORM GR-470-36 (| 2-76) | | 8200044 | PAGE 2 OF 3 |
|------------------------|--|--|--|--|
| 1 = GULF 5 = NORLEA | 2 = WIMMERA 62 6 = ABERYSTWYTH S-23 | STANDARD CULTIVARS 3 = LINN 7 = MANHATTAN | 4 = PELO 8 = PENNFIN | 10=Citation 11=Derby |
| 9. LEAVES: 1 VERNATIO | 1 = LEAVES ROLLED IN YOUNG SHO N: 2 = LEAVES SEMI-ROLLED (folded win 3 = LEAVES FOLDED IN YOUNG SHO | th rolled edges) | | 1 日本の日本 - 1 日本の日本 - 1 日本の日本 - 1 日本 - 1 日本日本 - 1 日本 - 2 日本日本 - 1 日本 |
| 0 3 3 % | PLANTS WITH ANTHOCYANIN IN LOWE | ا م ا | 1 = YELLOW COLOR: 2 = MEDIUM 3 = BLUE G | /I GREEN |
| 10. SPIKE: | M. SPIKE LENGTH (tip to internode below | Jowest flores | | |
| | $(1.44) \cdot 4r_{\rm soft} = (1.27) \cdot 10^{-10} \cdot$ | | | |
| | ONGER THAN | | D CULTIVARS FROM AB | OVE |
| | MG. PER TEN SPIKES (trimmed to inte | rnode below lowest floret) | | Committee of the same of the s |
| | MG, LIGHTER PER TEN SPIKES THAI | | | |
| M | G. HEAVIER PER TEN SPIKES THAN | | ID CULTIVARS FROM AE ಪ್ರಾಥಕ್ಟ್ಯಗಳಲ್ಲಿ ಸಂಗ್ರಹಣೆ | |
| 0 8 FLOR | ETS PER SPIKELET | | and the second seco | uarugung beginni ber ber in erin erin erin erin erin erin erin |
| PERCENTAGE C | OF PLANTS WITH: | er en er De la Sangar en de de la Region de la Sangar en la Region de la Region de la Region de la Region de la Region | en e | urani da sanara da s |
| RACHIS: | % sмоотн | % ROUG | H. San | was a second of the second of |
| | | en in 1994 <u>- English Ber</u> Kanada Barana Baran Barana Barana Baran | | Alba Barra a sur su |
| SPIKE COLOR: | 0 6 8 % GREEN | 0 3 2 % PURP | LE A SAME | gradien de la company |
| LEMMA: | 0 0 0 % AWNED | MM. AW | Bis Alection N LENGTH Mile L ^{EE} | Anna I ann a tha an |
| | | Mary Company (September 1997) | and the second s | omio de la complexión. Oscare |
| | | | | |
| 0 9 мм. с | LUME LENGTH | 1 = SPIKELET LE 2 = SPIKELET LE GLUMES | NGTH NEARLY EQUAL T NGTH MUCH LONGER TI | TO OUTER GLUMES HAN OUTER |
| | PLANTS WITH ANTHOCYANIN IN COLEC | Commission (Commission Commission | ه در محمد کار در ماهو که معنی در مستخدی در | |
| 12. ANTHER CO | LOR: | The state of the s | er same and a second | to the second second second second second |
| 0 0 2 % | PLANTS WITH WHITE ANTHERS | The second of the second of | S WITH YELLOW ANTHE | |
| 0 1 3 % | PLANTS WITH PURPLE ANTHERS | | The second secon | |
| 13. ROOT AND F | LANT CHARACTERS: | · / / / · · · · · · · · · · · · · · · · | では、またない。 では、またない。これでは、またない。 では、またない。これでは、またない。 では、またない。これでは、またない。 では、またない。これでは、またない。 では、またない。これでは、またない。 では、またない。これでは、またない。 では、またない。これでは、またない。 では、またない。これでは、またない。 では、またない。これでは、またない。 では、またない。これでは、またない。 では、ま | - |
| % ! | PLANTS WITH PROSTRATE GROWTH HA | BIT O O O O W PLANT | TS WITH FLUROESCENT | ROOTS: |
| % ! | PLANTS WITH UPRIGHT GROWTH HABIT | | | |
| 14. SEED: | PER 4 000 OFFR | erika (j. 1919) Tempo erika erika (j. 1919) | | M TOTAL MIDTU |
| 1/2 7 7 | DER 1,000 SEED 0 5 | 5 MM. TOTAL LENGTH OF 10 | | M. TOTAL WIDTH F TEN SEEDS |

a distribution de la company d

| 15. DISEASE (0 = 1 8 = 1 | NOT TESTED, 2 = HIGHLY SUSCEPTIB HIGHLY RESISTANT): | BLE, 4 = MODE | RATELY SUSCEPTIB | LE, 6 = MODERAT | ELY RESISTANT, |
|---------------------------|---|--|------------------|---|-------------------------------|
| ' | elminthosporium) 8 8 MI | OLLAR SPOT (S ILDEW ED THREAD (Œ | MI | | PATCH (Rhizoctonia) (Specify) |
| | OT TESTED, 2 = HIGHLY SUSCEPTIBL | LE, 4 = MODER | ATELY SUSCEPTIBL | E, 6 = MODERATE | LY RESISTANT, |
| 0 (Specify) | IGHLY RESISTANT): | · · · · · · · · · · · · · · · · · · · | <i>y</i> - | e de la companya de l | |
| COMPARISON IS | ANCE VALUE IN LEFT COLUMN AND MADE (1 = LESS THAN, 2 = SAME LEATER HEIGHT): | | | | |
| RESEMBLANCE | CHARACTER | . • | SIMILAR VARIETY | - | |
| 2 | PLANT HABIT (erectness) | 9 | 1 = GULF | 5 (1) (1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1 | |
| 2 | TILLERING | 8 | 2 = WIMMERA 62 | | action of the second |
| 3 | WINTER HARDINESS | 7 | 3 = LINN | · · | |
| 2 | HIGH TEMP. STRESS RESISTANCE | 8 | 4 = PELO | the second second | |
| 2 | TURF PERSISTENCE | 8 | 5 = NORLEA | di Historia Historia | |
| 2 | PLANT COLOR | 11 | 6 = ABERYSTWYTH | S-23 | |
| 2 | VERTICAL SEEDLING GROWTH RA | TE 8 | 7 = MANHATTAN | | Citation |
| 2 | CROWN DENSITY | 8 | 8 = PENNFINE | 11 = | : Derby |
| 2 | MOWER SHREDDING RESISTANCE | 7 | 9 = Yorktown | | |
| 18. GIVE AREA OF | ADAPTATION AND INTENDED USE: . | | turf type pere | ennial ryegra | sses are |
| 19. GIVE AREA TES | F RESULTS PRESENTED FROM: | currently | y used. | | |
| COMMENTS | | | | | |

EXHIBIT D (CORRECTED)

Additional Description of the Variety

The following data gives comparisons of Goalie with other varieties as well as values of statistical significance:

| | VARIETY | | | | | |
|---------------------------|---------|-----------|------------|----------|------------|---------|
| CHARACTERISTIC | GOALIE | /PENNFINE | /MANHATTAN | /YORKTOW | I/F-VALUE/ | LSD .05 |
| Culm Length (cm) | 51.3 | 52.2 | 61.9 | 46.7 | 4.59* | 3.17 |
| Flag Leaf Width (mm) | 2.9 | 3.3 | 3.3 | 3.Ó | 1.14 | N.S. |
| Flag Leaf Length (cm) | 9.4 | 8.7 | 11.4 | 8.0 | 6.40** | 0.99 |
| Spike Length (cm) | 12.48 | 13.01 | 17.86 | 12.42 | 13.70** | 1.12 |
| Florets/Spike (No.) | 7.7 | 7.6 | 8.9 | 8.0 | 6.58** | 0.7 |
| Glume Length (mm) | 8.67 | 9.27 | 11.10 | 9.13 | 8.17** | 0.91 |
| Thousand Seed Weight (gm) | 1.79 | 1.70 | 1.19 | 1.62 | 78.78** | 0.07 |
| Seed Length (mm) | 5.51 | 5.44 | 5.32 | 5.24 | 1.38 | N.S. |
| Seed Width (mm) | 1.16 | 1.20 | 1.11 | 1.09 | 2.85* | 0.09 |

^{*}Significant at the .05 level

^{**}Significant at the .01 level

EXHIBIT D

ADDITIONAL DESCRIPTION OF VARIETY

D-1 Seed

Goalie perennial ryegrass seeds are similar to Delray's seeds in length and longer than seeds of Pennfine, Yorktown and Derby.

| Variety | Seed Length mm. | Seed Width mm. | Length/ Width Ratio | Wt./1,000 Seeds <u>Grams</u> |
|-----------|-----------------------|----------------------|---------------------------|------------------------------------|
| Goalie | 5.51 | 1.16 | 4.75 | 1.7875 |
| Delray | 5.54 | 1.24 | 4.47 | 1.6593 |
| Pennfine | 5.44 | 1.21 | 4.50 | 1.6969 |
| Manhattan | 5.32 | 1.11 | 4.79 | 1.1925 |
| Yorktown | 5.24 | 1.09 | 4.89 | 1.6400 |
| Derby | 5.17 | 1.15 | 4.50 | 1.8453 |

D-2 Plant

Goalie's average plant height is about the same as Yorktown plants, shorter than Pennfine plants, and taller than Derby plants. Its culm length is slightly shorter than those of Pennfine and longer than those of Yorktown and Derby. Spike length equals Yorktown and are longer than Derby and shorter than Pennfine spikes.

| | Naturally Occurring Height - cm. | Culm Length | Flag Leaf Length - cm. | Flag Leaf Width - cm. | Spike Length cm. | Florets per Spikelet | Glume Length mm. | Anther Color % Plants With Some Red On Anthers | Spike Anthocyanin % Plants With Some Red In Spike | Leaf Sheath Anthocyanins % Plants With Some J |
|-----------|--|-------------|-----------------------------|--------------------------|------------------|---------------------------|------------------|--|---|---|
| Goalie | 43.0 | 51.2 | 9.4 | 2.9 | 12.5 | 7.7 | 11.4 | 22.7 | 31.2 | 33.9 |
| Delray | 43.7 | 49.2 | 7.9 | 2.9 | 14.5 | 7.2 | 7.9 | 41.0 | 16.4 | 36.1 |
| Pennfine | 50.0 | 52.2 | 8.7 | 3.9 | 13.0 | 7.6 | 9.3 | 37.3 | 20.3 | 24.4 |
| Manhattan | 48.0 | 61.9 | 14.9 | 3.8 | 23.8 | 9.5 | 11.1 | 15.5 | 26.7 | 15.4 |
| Yorktown | 42.8 | 46.7 | 8.0 | 3.0 | 15.4 | 7.7 | 9.1 | 26.4 | 40.2 | 50.8 |
| Derby | 41.3 | 42.4 | 7.8 | 2.9 | 14.0 | 7.2 | 9.4 | 38.5 | 37.4 | 69.7 |
| | | | | | | | | | | |

D-3 Tiller Density - July 31, 1979

Under turf conditions, Goalie is less dense than Delray and Manhattan, and is more similar to Pennfine in this characteristic.

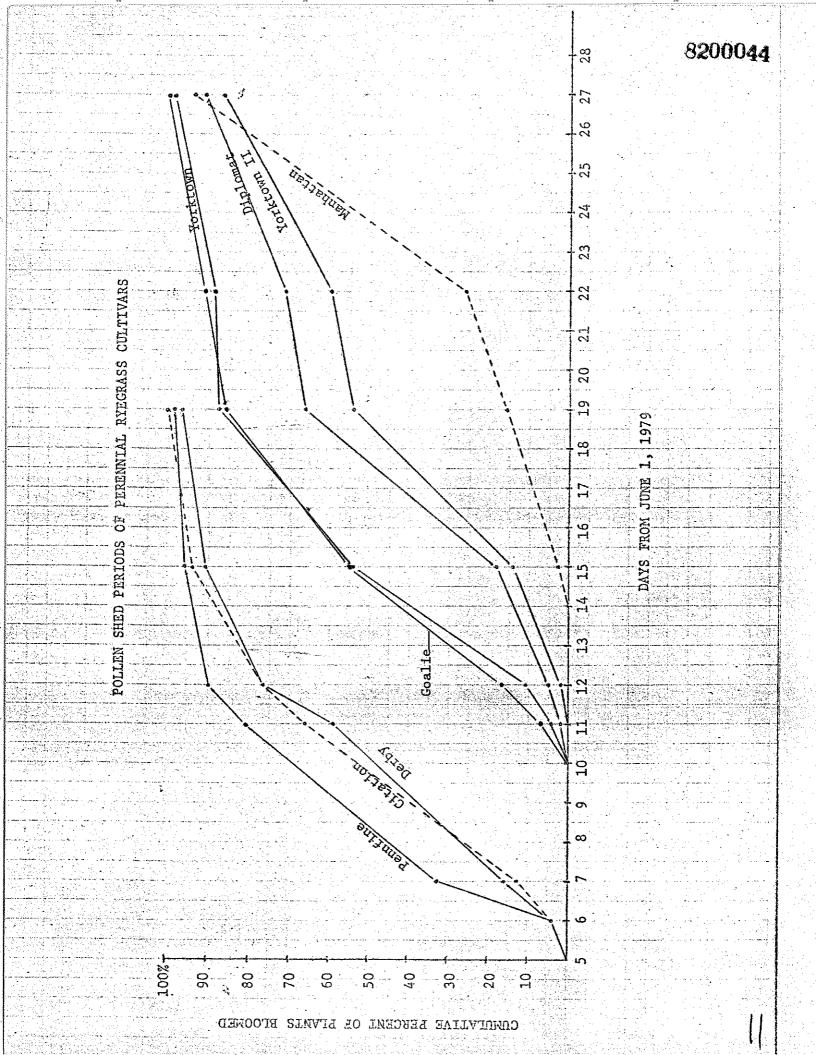
| | | Number Of Tillers/100 Cm. Sq. | | |
|-----------|--------------|-------------------------------|--|--|
| | Mown at 3/4" | Mown at 2" | | |
| Goalie | 505 | 253 | | |
| Delray | 565 | 346 | | |
| Manhattan | 576 | 346 | | |
| Pennfine | 504 | 285 | | |

D-4 Flowering*

Goalie is medium in flowering date. It reaches anthesis at about the same time as Yorktown and is about six days later than Pennfine.

| 'n | 50% Bloom Date June, 1979 |
|-----------|---------------------------|
| Goalie | 15 |
| Yorktown | 15 |
| Derby | 10 |
| Pennfine | 8 |
| Delray | 9 |
| Manhattan | 24 |

^{*}See attached graph.



AGREEMENT

STATE OF MINNESOTA)

COUNTY OF HENNEPIN)

WHEREAS, NORTHRUP KING CO., a corporation duly organized and validly existing under the laws of the State of Delaware, whose address is 7500 Olson Memorial Highway, Golden Valley, Minnesota 55427, hereinafter called NORTHRUP, has rights to certain proprietary grass turf seed varieties set forth in Exhibit A attached hereto (the "Turf Seed Varieties") and made an integral part hereof; and

WHEREAS, NK LAWN & GARDEN CO., a corporation duly organized and validly existing under the laws of the State of Delaware, whose address is 7500 Olson Memorial Highway, Golden Valley, Minnesota 55427, hereinafter called NK LAWN, is desirous of acquiring all of Northrup's rights to said Turf Seed Varieties;

I. ASSIGNMENT

NOW, THEREFORE, be it known that for and in consideration of the sum of one dollar (\$1.00) and other good and valuable consideration, receipt of which is hereby acknowledged, said NORTHRUP does hereby assign, transfer and convey to said NK LAWN all rights, title and interest in and to the said Turf Seed Varieties set forth in Exhibit A attached hereto, including (without limiting the generality of the foregoing) the right to apply for, obtain, and own, as successor in interest to NORTHRUP,

a Certificate of Plant Variety Protection for each Turf Seed Variety set forth in Exhibit B.

II. SUCCESSORS AND ASSIGNS

The obligations of NORTHRUP under this Agreement shall be binding on its successors and assigns and shall inure to the benefit of any successors and assigns of NK LAWN.

III. GOVERNING LAW

This Agreement shall be governed by and construed in accordance with the laws of the State of New York.

Dated: January 29, 1993

NORTHRUP KING CO.

Namo: Namo: 1. Series

Name: Konrad P. Wirz Title: Vice President

NK LAWN & GARDEN CO.

Name: Lordy J. Johnson

Title: General Manager & CEO

STATE OF <u>MINNESOTA</u>)

COUNTY OF <u>HENNEPIN</u>)

ss.:

On this _29thday of January 1993, before me personally came __Konrad P. Wirz_____, to me known, who being by me duly sworn, does depose and say that he resides at __Minneapolis, __________; that he is __Vice President _ of NORTHRUP KING CO. (a Delaware corporation), the corporation described in and which executed the above instrument; that he knows the seal of the said corporation; that the seal affixed to said document is such corporate seal; that it was affixed by order of the Board of Directors of said corporation; and that he signed his name by like order.

UNOCATY PUBLIC

NANCY A WEST
NOTARY PUBLIC—MINNESOTA
ANOKA COUNTY
My Commission Expires Oct. 28, (993)

| STATE OF MINNESOTA |
|---|
|) ss.: COUNTY OF HENNEPIN) |
| |
| On this 29th day of January 1993, before me personally |
| LoDors T. Johnson |
| came, to me known, who being by me duly |
| sworn, does depose and say that he resides at Minneapolis, |
| Minnesota ; that he is General Manager of NK Lawn & CEO |
| Garden Co. (a Delaware corporation), the corporation described in |
| and which executed the above instrument; that he knows the seal |
| of the said corporation; that the seal affixed to said document |
| is such corporate seal; that it was affixed by order of the Board |
| of Directors of said corporation; and that he signed his name by |
| like order. |
| Lancy a last Notary Public |
| NANCY A. WEST NOTARY PUBLIC—MINNESOTA ANOKA COUNTY My Commission Expires Oct 28, (993) |

EXHIBIT A

TURF SEED VARIETIES

| | | Turf Seed Variety | Northrup's Ownership Interest |
|---|-----|--|--|
| | 1. | Kentucky Bluegrass Aspen | PVP Certificate (Certificate #8600151 issued April 30, 1987) owned by Northrup. |
| | 2. | Kentucky Bluegrass Trenton | PVP Certificate (Certificate #8600156 issued April 30, 1987) owned by Northrup. |
| | 3. | Puccinellia distans Weeping Akalaigrass Fults | PVP Certificate (Certificate #8300071 issued December 30, 1983) owned by Northrup. |
| - | 4. | Perennial Ryegrass Delray | PVP Certificate (Certificate #8200043 issued April 26, 1985) owned by Northrup. |
| | 5. | Perennial Ryegrass Goalie | PVP Certificate (Certificate #8200044 issued January 31, 1986) owned by Northrup. |
| | 6. | Perennial Ryegrass Dandy | Licensed to Northrup from R.H. Bailey Seed, Inc. on September 7, 1989. |
| | 7. | Perennial Ryegrass Target | Licensed to Northrup from Triad Seed Co. on August 11, 1989. |
| | 8. | Kentucky Bluegrass Kelly | Licensed to Northrup from O.M. Scott & Sons Company on August 2, 1988. |
| | 9. | Tall Fescue Amigo (FFH) | Licensed to Northrup from Pure-Seed Testing, Inc. on February 18, 1989. |
| | 10. | Tall Fescue Arriba (5DM) | Licensed to Northrup from Pure-Seed Testing, Inc. on September 25, 1989. |
| | 11. | Tall Fescue Arid | Licensed to Northrup from Jacklin Seed Company on October 25, 1988. |
| | 12. | Perennial Ryegrass Pennfine | Licensed to Northrup from Seed Production and Introduction Corporation. |

EXHIBIT B

PLANT VARIETY PROTECTION CERTIFICATES

| Turf Seed Variety | Plant Variety Protection Certificate No. | Issue Date |
|---|--|-------------------|
| Kentucky Bluegrass Aspen | 8600151 | April 30, 1987 |
| Kentucky Bluegrass Trenton | 8600156 | April 30, 1987 |
| Puccinellia Distans Weeping Alkaligrass Fults | 8300071 | December 30, 1983 |
| Perennial Ryegrass Delray | 8200043 | April 26, 1985 |
| Perennial Ryegrass Goalie | 8200044 | January 31, 1986 |